

COURSE	Name	: Special Topics In Electronics
	Code	: EE185548
	Credit(s)	: 2
	Semester	: (Elective Course)

Description of Course

This course deals with specific topics in electronic technology or related to current development in electronics technology, which has not been discussed in other courses, interdisciplinary, or possibly a trend in the future. The topics covered can also be directed to support the research topic of the student in particular and more in-depth. It is expected to prepare students to familiarize themselves with the current developments of one or more specific topics in the field of electronics from sources of reputable publications, such as artificial intelligence, sensor technology, micro and nanoelectronics technology, and robotics.

Learning Outcomes

Knowledge

(P02) Mastering engineering concepts and principles to develop the necessary procedures and strategies for systems analysis and design in the areas of power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

Specific Skill

(KK02) Being able to compose problem solving in engineering through depth and breadth of knowledge which adapts to changes in science and technology in power systems, control systems, multimedia telecommunications, electronics, intelligent multimedia network, or telematics.

General Skill

(KU01) Being able to develop logical, critical, systematic, and creative thinking through scientific research, the creation of designs or works of art in the field of science and technology which concerns and applies the humanities value in accordance with their field of expertise, prepares scientific conception and result of study based on rules, procedures and scientific ethics in the form of a thesis or other equivalent form, and uploaded on a college page, as well as papers published in scientific journals accredited or accepted in international journals.

Attitude

(S09) Demonstrate a responsible attitude towards the work in the field of his/her expertise independently.

Course Learning Outcomes

Knowledge

Understand the latest developments of special topics in the field of electronics.

Specific Skill

Able to study and implement the initial design of a problem on a specific topic in electronics.

General Skill

Able to do literature review of topics in the field of electronics comprehensively and critically.

Attitude

Demonstrate a responsible attitude towards the work in his own field of expertise independently.

Main Subjects

1. Literature review.
2. Simulation technique.
3. Implementation of electronics system.
4. Project

Reference(s)

- [1] Some relevant textbooks.
- [2] Relevant Journals and proceedings.

Prerequisite(s)

--